TABLE 4

COMBUSTION UNITS

OPERATIONAL DATA				
Number from flow diagram:		Model Number(if available):		
Name of device:		Manufacturer		
CHARACTERISTICS OF INPUT				
Waste Material*	Chemical Composition			
	Material	Min. Value Expected lb/hr	Ave. Value Expected lb/hr	Design Maximum lb/hr
	1.			
	2.			
	3.			
	4.			
	5.			

Gross Heating Value of Waste Material (Wet basis if applicable)	Btu/lb _____	Air Supplied for Waste Material	Minimum SCFM (70°F & 14.7 psia) _____	Maximum SCFM(70°F & 14.7 psia) _____

Waste Material of Contaminated Gas	Total Flow Rate lb/hr		Inlet Temperature °F	
	Minimum Expected _____	Design Maximum _____	Minimum Expected _____	Design Maximum _____

Fuel	Chemical Composition			
	Material	Min. Value Expected lb/hr	Ave. Value Expected lb/hr	Design Maximum lb/hr
	1.			
	2.			
	3.			
	4.			

Gross Heating Value of Fuel	Btu/lb ___	Air Supplied for Fuel	Minimum SCFM (70°F & 14.7 psia) _____	Maximum SCFM(70°F & 14.7 psia) _____

*Describe how waste material is introduced into combustion unit on an attached sheet. Supply drawings, dimensioned and to scale to show clearly the design and operation of the unit.

TABLE 4
(continued)

COMBUSTION UNITS

CHARACTERISTICS OF OUTPUT				
Flue Gas Released	Chemical Composition			
	Material	Min. Value Expected lb/hr	Ave. Value Expected lb/hr	Design Maximum lb/hr
	1.			
	2.			
	3.			
	4.			
	5.			
Temperature at Stack Exit °F _____	Total Flow Rate lb/hr		Velocity at Stack Exit ft/sec	
	Minimum Expected _____	Maximum Expected _____	Minimum Expected _____	Maximum Expected _____

COMBUSTION UNIT CHARACTERISTICS		
Chamber Volume from Drawing ft^3 _____	Chamber Velocity at Average Chamber Temperature ft/sec _____	Average Chamber Temperature °F _____
Average Residence Time sec _____	Exhaust Stack Height ft _____	Exhaust Stack Diameter ft _____

ADDITIONAL INFORMATION FOR CATALYTIC COMBUSTION UNITS		
Number and Type of Catalyst Elements _____	Catalyst Bed Velocity ft/sec _____	Max. Flow Rate per Catalytic Unit (Manufacturer's Specifications) Specify Units _____

Attach separate sheets as necessary providing a description of the combustion unit, including details regarding principle of operation and the basis for calculating its efficiency. Supply an assembly drawing, dimensioned and to scale, to show clearly the design and operation of the equipment. If the device has bypasses, safety valves, etc., specify when such bypasses are to be used and under what conditions. Submit explanations on control for temperature, air flow rates, fuel rates, and other operating variables.